

Application/Control Number: 10/812,108 Docket No.:
Art Unit: 3683 BA/Div App

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claim in the application:

1-16 (Cancelled)

17. (currently amended) A vibration damping device for an archery bow, comprising

an archery bow with a cylindrical projection, a vibration damper formed of a single piece of elastomeric material and having a cylindrical, ring shaped base with an inner, cylindrical ring surface, and an axis along the length of the cylindrical, ring shaped base, and ~~a radius from the axis to the inner, cylindrical ring surface,~~ the damper further comprising a plurality of six or more fins extending from the ring-shaped base in a radial direction from the axis, wherein each of the plurality of radial fins has a fin base at a proximal end of the fin at the ring base and a fin tip at the distal end of the fin, the vibration damper having a radius from the axis to the fin tips, and wherein the radial fins are not constrained and are free to vibrate, and wherein the distance between the proximal end and the distal end of the fins is at least

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as great as half the radius, and wherein the inner, cylindrical ring surface fits over the cylindrical projection of the archery bow.

18. (canceled)

19. (previously presented) The vibration damping device of claim 17 wherein the cylindrical projection of the archery bow is a mounting cup sized to be disposed within the inner ring surface of the vibration damper.

20. (original) The vibration damping device of claim 19 further comprising a foam insert disposed within the mounting cup.

21. (new) A vibration damping device for mounting to an archery bow, comprising

a vibration damper formed of an elastomeric material and having a cylindrical, ring shaped base with an inner, cylindrical ring surface, and an axis along the length of the cylindrical, cylindrical ring surface, the damper further comprising a plurality of six or more fins extending from the ring-shaped base in a radial direction from the axis, wherein each of the plurality of radial fins has a fin base at a proximal

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end of the fin at the ring base and a fin tip at the distal end of the fin, the vibration damper having a radius from the axis to the fin tips, and wherein the radial fins have a middle portion between the fin bases and the fin tips, wherein the middle portion is concentric with the ring-shaped base, and wherein a concentric, cylindrical stabilizing annular ring is located in the middle portion and joins the radial fins, and wherein the distance between the proximal end and the distal end of the fins is at least half the radius, and wherein the inner, cylindrical ring surface fits over the cylindrical projection of the archery bow.

22. (new) The vibration damping device of claim 21 further comprising a cylindrical projection extending forward from the archery bow, wherein the inner, cylindrical ring surface mounts to the cylindrical projection.

23. (new) The vibration damping device of claim 21 further comprising

a mounting cup, the mounting cup comprising a cylindrical cup wall having a cup axis and forming a cup cavity, a cup opening at one end of the cylindrical

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cup wall, a cup base at an opposite end of the cylindrical cup wall, the cup base further having a center aligned with the cup axis and a bore located at the center of the cup base, the bore sized to receive a mounting bolt,

wherein the mounting cup is fixedly disposed within the inner, cylindrical ring surface.

23. (new) The vibration damping device of claim 22 further comprising a foam insert disposed within the cavity of the mounting cup.